

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

1. (Currently Amended) A message device receiver, comprising:
at least one processor;
a local buffer configured to communicate with an external buffer residing in a an external message device;
a message sender component configured to facilitate transmitting a first tag-based message to the external message device, the first tag-based message including a portion retained by the local buffer and a remaining portion of the first tag-based message, wherein the remaining portion and a reference to the portion retained by the local buffer are concurrently transmitted to the external message device; and
a message receiver component configured to facilitate receiving a second a-reception device that receives a customizable, tag-based message from the external message device, the second tag-based message that includes a reference to a first-memory portion of the second tag-based message retained by the external buffer; and
a processor device that processes the reference in the customizable, tag-based message to cause a piece of information stored in the first memory portion to transfer to a second memory portion if the first memory portion contains the piece of information to be sent and the second memory portion acts as a repository for receiving the piece of information and the piece of information stored in the second memory portion to transfer to the first memory portion if two conditions exist, which first condition specifies that the second memory portion contains the piece of information to be sent and which second condition specifies that the first memory portion acts as the repository for receiving the piece of information, wherein the first memory portion and secondary memory portion integrate upon the message receiver.

2. (Currently Amended) The message device networked system of Claim 1, wherein each of the customizable, first and second tag-based messages include[[s]] a body element for

~~including containing~~ data, the body element of the first tag-based message including the reference to the first memory portion of the first tag-based message retained by the local buffer, the body element of the second tag-based message including the reference to the portion of the second tag-based message retained by the external buffer.

3. (Previously Cancelled)

4. (Currently Amended) The message device networked system of Claim 1, wherein each of the customizable, first and second tag-based messages include[[s]] a header element for including containing control information.

5. (Currently Amended) The message device networked system of Claim 1, wherein each of the customizable, first and second tag-based messages is sent from a message sender to the message receiver via a customizable, tag-based protocol.

6-30. (Previously Cancelled)

31. (Withdrawn) A method operable upon a computer readable medium, comprising
locating a session manager service from a directory;
issuing a create transfer session request to the session manager service; and
associating the create transfer session request with parameters identifying a Uniform Resource Identifier (URI) of the receiver service.

32. (Withdrawn) The method of claim 31, further comprising:
issuing a mapping request based upon the create transfer session request and parameters identifying the URI of the receiver service; and
associating the mapping request with the URI of the receiver service and an address of a local buffer;

33. (Withdrawn) The method of claim 32, further comprising:
requesting a steering tag;

associating the steering tag with the address of the local buffer as well as a network port number.

34. (Withdrawn) The method of claim 32, further comprising:
creating a session service with the URI;
creating a transfer context that relates to a steering tag with the address of the local buffer; and
issuing a create transfer session response.
35. (Withdrawn) The method of claim 34, further comprising:
constructing a header of a SOAP message to contain the transfer context including the URI of the session service;
constructing an attribute indicating a reference to the URI;
36. (Withdrawn) The method of claim 35, further comprising:
constructing a body of the SOAP message which used the attribute to describe the buffer;
and
encoding the body of the SOAP message to secure from unauthorized access.
37. (Withdrawn) The method of claim 35, further comprising sending the SOAP message across a network in a serialized form.
38. (Withdrawn) A method operable upon a computer readable medium, comprising:
determining if there is an intermediary that intercepts a SOAP message;
determining if the intermediary requires communication to pass through if it is determined that there is an intermediary; and
reconstituting the SOAP message upon determining that there is an intermediary and the intermediary requires communication to pass through.
39. (Withdrawn) The method of claim 38, further comprising:
parsing a head of the SOAP message;

- finding transfer context of the SOAP message;
 - creating a staging buffer based upon the transfer context; and
 - determining if the SOAP message is delivering information.
40. (Withdrawn) The method of claim 39, further comprising returning to determining if there is an intermediary that intercepts a SOAP message upon determine that the SOAP message is not delivering information.
41. (Withdrawn) The method of claim 39, further comprising:
- transferring content of the buffer of a previous transfer context into the staging buffer of the intermediary;
 - changing the head of the SOAP message to include transfer context created by the intermediary;
 - outputting the SOAP message in serialized form; and
 - returning to determining if there is an intermediary that intercepts a SOAP message upon determine that the SOAP message is delivering information.
42. (Withdrawn) A method operable upon a computer readable medium, comprising:
- parsing a body of a SOAP message;
 - identifying an attribute in the SOAP message through the parsing; and
 - finding a transfer context described in a header of the SOAP message upon identifying the attribute.
43. (Withdrawn) The method of claim 42, further comprising:
- determining if an action of the SOAP message is of delivering information; and
 - allocating a local buffer based upon information in the transfer context if it is determined that the action is of delivering information.
44. (Withdrawn) The method of claim 42, further comprising:
- determining if an action of the SOAP message is of delivering information; and

locating a local buffer containing desired information if it is not determined that the action is of delivering information.

45. (Withdrawn) The method of claim 42, further comprising issuing an insert request to a session manager.

46. (Withdrawn) The method of claim 42, further comprising
parsing the transfer context; and
transferring the communication associated with the transfer context into transfer information.

47. (Withdrawn) The method of claim 46, further comprising outputting the information based upon a steering tag of the transfer context.

48. (Withdrawn) The method of claim 47, further comprising determining if an action of the SOAP message is of delivering information, a node upon which the information is outputted is selected based upon a result of the determination.

49. (Withdrawn) The method of claim 46, further comprising:
issuing an insert response after transferring the communication; and
outputting the insert response.

50. (Withdrawn) The method of claim 49, further comprising:
issuing an update response based upon the insert response; and
outputting the update response.

51. (Withdrawn) The method of claim 50, further comprising:
issuing a drop message based upon the update response; and
outputting the drop message.

52. (Withdrawn) A system for transfer a customizable tag-based message, comprising:
- a message sender with a local message sender buffer that associates a steering tag of the message with a buffer address and outputs the message from the local message sender buffer;
 - an intermediary with a local staging buffer that determines if the message should be intercepted by the intermediary, upon determining that interception should occur the intermediary retains at least a portion of the message; and
 - a message receiver with a message receiver buffer, upon determining that interception should occur the message receiver initially collects at least a portion of the message but does not initially collect the message entirely, the message portion initially collected includes metadata that points to at least part of the non-initially collected message.
53. (Withdrawn) A memory that retains a customizable, tag-based message, the message comprises:
- a root tag that discloses a basis of the message;
 - a header element tag that includes control information of the message;
 - a buffer element tag that includes an attribute identification that is a name of local scope to the message;
 - a reference tag that refers to information associated with the message that is retained in a buffer;
 - a buffer element ending tag that signifies an end to the buffer element tag;
 - a header element ending tag that signifies an end to the header element tag;
 - a multimedia tag that signifies an attribute of the message;
 - a multimedia ending tag that signifies an end to the multimedia tag; and
 - a root ending tag that signifies an end to the root tag.
54. (New) A method for facilitating tag-based electronic communications, comprising:
- employing a processor to execute computer executable instructions stored on a computer readable storage medium to implement the following acts:
 - transmitting a first tag-based message from a local buffer residing in a local device to an external buffer residing in an external message device, the first tag-based message including a portion retained by the local buffer and a remaining portion of the first tag-based message,

wherein the transmitting act includes simultaneously transmitting the remaining portion and a reference to the portion retained by the local buffer to the external message device; and

receiving a second tag-based message from the external message device, the second tag-based message includes a reference to a portion of the second tag-based message retained by the external buffer.

55. (New) The method of Claim 54, the transmitting act further comprising including a body element to the first tag-based message, wherein the reference to the portion of the first tag-based message retained by the local buffer is embedded within the body element.

56. (New) The method of Claim 54, the transmitting act further comprising including a header element to the first tag-based message, wherein control information for the first tag-based message is embedded within the header element.